

What is claimed is:

1. A system for telephony call control, comprising:

5 a) a call control server coupled to one of a telephone or a PBX and coupled to a wireless network, said call control server having call control capabilities and wireless network communication capabilities; and

b) a hand-held wireless device having wireless network communication capabilities, wherein

10 said call control server sends a message to said hand held wireless device when a call is received and responds to messages from said hand held wireless device for processing the call.

15 2. A system according to claim 1, wherein:

said hand held wireless device is a personal digital assistant.

3. A system according to claim 1, wherein:

20 said hand held wireless device is a cell phone with computing capabilities.

4. A system according to claim 1, wherein:

25 said call control server is a computer coupled to a telephone having CTI capabilities.

5. A system according to claim 1, wherein:

30 said call control server is a teleworking server coupled to a PBX.

6. A system according to claim 1, further comprising:

c) a wireless network gateway/router coupled to said call control server.

7. A system according to claim 6, wherein:
said wireless network gateway/router is a LAN
wireless network gateway/router.

5 8. A system according to claim 6, wherein:
said wireless network gateway/router is a WAN
wireless network gateway/router.

9. A system according to claim 7, wherein:
10 said wireless network gateway/router is an IEEE
802.11b wireless network gateway/router.

10. A system according to claim 7, wherein:
said wireless network gateway/router is an SMDS
15 wireless network gateway/router.

11. An apparatus for use with a hand held wireless
device for remote telephony call control, comprising:
a) a call control server coupled to one of a telephone
20 or a PBX, said call control server having call control
capabilities and wireless network communication
capabilities; and
b) a wireless network gateway/router coupled to said
call control server, wherein
25 said call control server sends a message to the hand
held wireless device when a call is received and responds
to messages from the hand held wireless device for
processing the call.

30 12. An apparatus according to claim 11, wherein:
said call control server is a computer coupled to a
telephone having CTI capabilities.

13. An apparatus according to claim 11, wherein:
35 said server is a teleworking server coupled to a
PBX.

14. An apparatus according to claim 11, wherein:
said wireless network gateway/router is a LAN
wireless network gateway/router.

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15. An apparatus according to claim 11, wherein:
said wireless network gateway/router is a WAN
~~wireless network gateway/router.~~

10 16. An apparatus according to claim 14, wherein:
said wireless network gateway/router is an IEEE
802.11b wireless network gateway/router.

15 17. An apparatus according to claim 15, wherein:
said wireless network gateway/router is an SMDS
network wireless gateway/router.

18. An apparatus for use with a call control server
coupled to one of a telephone or a PBX and coupled to a
20 wireless network, comprising:
a hand held wireless device having wireless network
communication capabilities, wherein
said hand held wireless device receives a message
from the call control server when a call is received and
25 responds to messages from the call control server for
processing the call.

19. An apparatus according to claim 18, wherein:
said hand held wireless device is a personal digital
30 assistant.

20. An apparatus according to claim 18, wherein:
said hand held wireless device is a cell phone with
computing capabilities.

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21. An apparatus according to claim 18, wherein:
said wireless network communication capabilities are
LAN wireless network communication capabilities.
- 5 22. An apparatus according to claim 18, wherein:
said wireless network communication capabilities are
WAN wireless network communication capabilities.
- 10 23. An apparatus according to claim 21, wherein:
said wireless network communication capabilities are
IEEE 802.11b wireless network communication capabilities.
- 15 24. An apparatus according to claim 22, wherein:
said wireless network communication capabilities are
SMDS wireless network communication capabilities.
25. A method for telephony call control, comprising the
steps of:
- 20 a) coupling a call control server having call control
and wireless network communication capabilities to one of
a telephone or a PBX;
- b) coupling said call control server to a wireless
network; and
- 25 c) utilizing said call control server to:
- 1) send a message to a hand held wireless device
having call control capabilities and wireless
network communication capabilities when a call is
received; and
- 30 2) respond to messages from said hand held wireless
device for processing the call.

26. A method for use with a hand held wireless device for remote telephony call control, comprising the steps of:

- 5 a) coupling a call control server having call control and wireless network communication capabilities to one of a telephone or a PBX;
- ~~b) coupling a wireless network gateway/router to said~~
call control server; and
- 10 c) utilizing said call control server to:
 - 1) send a message to the hand held wireless device having call control capabilities and wireless network communication capabilities when a call is received; and
 - 15 2) respond to messages from said hand held wireless device for processing the call.

27. A method for use with a call control server coupled to one of a telephone or a PBX and coupled to a wireless
- 20 network, comprising the steps of utilizing said call control server to send a message to a hand held wireless device having call control capabilities and wireless network communication capabilities when a call is received; and respond to messages from said hand held
 - 25 wireless device for processing the call.